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**From:** McGrath, Jesse [mcgrath.jesse@epa.gov]  
**Sent:** 3/24/2017 9:18:56 PM  
**To:** Compher, Michael [compher.michael@epa.gov]; Hamilton, Scott [hamilton.scott@epa.gov]; Qazzaz, Bilal [qazzaz.bilal@epa.gov]  
**Subject:** Spot check on MDEQ

Here are the MDEQ results. They submitted any invalidated period, rather than just for a QC check. I focused on the QC checks.

**Are routine data invalidated when QC checks are marked as invalid?**

26-081-0020	20161005	QA nightly check invalid	There is no raw data past September in 2016 for this monitor.
26-139-0005	20160511	QA precision point -failed check	The raw data have been removed as marked, but are marked with a "Multi-point Calibration" NULL flag, which I wouldn't expect.
26-065-0012	20160106	QA precision point - failed check	The raw data have been removed as marked, but are marked with a "Machine Malfunction" NULL flag, which I wouldn't expect.
26-065-0012	20161266	QA precision point - failed check	There is no raw data past September in 2016 for this monitor.
26-037-0001	20160815	QA nightly check invalid	Data actually invalidated back to 20160813 00:00. More data than listed in their email.
26-161-0008	20160617	QA precision point-failed check	The raw data have been removed as marked, but are marked with a "Machine Malfunction" NULL flag, which I wouldn't expect.
26-027-0003	20160804	QA precision point -failed check	The raw data don't appear to have been invalidated. I see one hour at 2016-08-03 9:00 invalidated, and that is not the same date. Is there a typo?
26-163-0001	20161008	Voided by Operator (invalid nightly zeros)	There is no raw data past September in 2016 for this monitor.

**Are routine data invalidated in the hour when the QC check is run?**

Yes, with the exceptions of sites without routine data reported in the periods above. They don't use codes I would expect though.

**Are all checks over 7% in AQS also in the state submitted file?**

The short answer is no. There are other reporting issues, such as reporting to POC 2, that make this hard to evaluate, but as a spot check it raises a flag.

I can't tell if they deliberately kept the checks or not, but in general they are far from the group of other checks.

**Do any checks from the state files explain gaps in blocks we identified?**

26-163-0001 2014-03-10 Site repair is in a block, but doesn't explain the missing check in the middle.

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